

ISSUE # 2

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#### ITEMS COVERED IN THIS ISSUE ARE:

- Dealer Service Training Classes
- On Line Service thru Atari Base (BBS)
- St / XE Diagnostic Updates
- Parts & Board Exchange List Updates
- SMM804 Internal Switch Setting
- "Tech Talk" Potpouri
- Technical Advise Notice 0007-0012

### SERVICE TRAINING CLASSES

Starting this month ATARI will begin Service Training on its "ST" and "XE" Line in the Sunnyvale Facility. These classes are designed to compliment the Board/Subassembly Exchange Program.

ICSSC's are eligible to send students to these classes. The classes will be limited to Fifteen (15) students per class (more classes will be added as needed) and we ask that each student have at least a "Basic" knowledge of the use of ATARI Computers and "some" (albeit limited) knowledge of electronic testing and testing equipment.

Items covered in each class will be:

- Service policy and procedures
- Product setup and configuration(s)
- Fault identification and isolation
- Proper removal & replacement of faulty assembly
- Reassembly and testing
- Review of each Technical Advise Notice

The "ST" and "XE" CPU/Disk Drives and Printers will be included.

The classes are geared for the entry to mid level technical person. You will not be chasing 1's & 0's around the board. You will, however, learn how to "Find and Fix" whatever is wrong in the shortest possible time.

Schedule of classes: (Monday & Tuesday)

18 - 19 August

22 - 23 September 20 - 21 October

17 - 18 November

Fee: \$125.00 - must be received prior to class date. You will receive confirmation of the dates you have selected.

For more information or to reserve a place in the class of your choice please contact Janet Lamping or myself at (408) 745-2466 or use ATARI BASE.

### SERVICE CENTER SIG ON ATARI BASE

In order to better serve the Dealers we have set up a private section within the ATARI Bulletin Board System, "ATARI BASE", that will allow you to leave a message and receive a prompt reply. To gain access to the private Service Sig, please log onto the BBS and leave me a message with your name, company name, and your Service Authorization # (##C####S).

Items available thru the BBS include:

- \* All Dealer Service Alerts
- \* Current Dealer Parts Price List
- \* All Technical Advise Notices
- \* The latest Service Information

The (\*) indicates a file (or files) that you can down load and print for your records.

There are several other SIGs within ATARI BASE including ATARI Dealers & Software Developers (private) and General, XE, ST (unrestricted).

To reach "ATARI BASE" phone 1-408-745-5308, Line #1 and log on. You must keep track of which of the five (5) lines you got in on as each lines messages are completely seperate from one another (we are working on this).

We feel that the BBS addition to the ATARI Service Network will continue to improve our response to your Service needs.

## DIAGNOSTIC & DOCUMENTATION UPDATES

- A) We will be sending the SM124 Field Service Manual (C026403) to each Authorized Service Dealer that purchased the "ST Diagnostic & Documentation Kit".
- B) We will also be sending the PBI Board (CA026033-001) and a complete list of the Error Codes to each Dealer that ordered the "XE Diagnostic & Documentation Kit". This board, in addition to the test performed by the PCB you received, will test the expansion slot of the 130XE.

### PARTS LIST UPDATE

Part Number	Description	Dealer Cost
C026403-001	Manual Field Service SM124	\$20.00
CA061983	Keyboard Assy - 800XL	15.00
C070263	Ribbon Assy - SMM804/XMM801	7.75
FC100626	Ink Roller -1027	2.75

### EXCHANGE LIST UPDATE

No additions or changes

### SMM804 INTERNAL DIP SWITCH SETTINGS

The SMM804 Owner's Manual does not describe the printer configuration DIP switches because the SMM804 power supply is exposed if the printer is opened by the user. The DIP switch settings should have been described in the SMM804 Service Manual, but we failed to include the information. Please include the following information in your SMM804 Service Manual.

DS1-2 DS1-3 DS1-4 DS1-5 DS1-6	Character Size Form length Paper End Detect Character Style Skip Over Perf Zero Style Alarm Buzzer		ON 17.1 cpi 12 inches Disabled Italic Enabled Slashed Enabled	OFF 10 cpi 11 inches Enabled Normal Disabled Not Slashed Disabled	FACTORY OFF OFF OFF OFF OFF	
DS2-1	DS2-2 D	S2-3	DS2-4			
OFF OFF ON X X	ON OFF OFF X X	X X X OFF ON	X X X ON OFF	AUTO FEED AUTO FEED	XT External XT Not Fixed XT Fixed Not Fixed Fixed	FACTORY

### "TECH TALK"

- The MIDI Test, in the 3.5 Diagnostic, refers to a blinking LED. This LED was not installed in the MIDI Jumper Cable. The test is to confirm the "THRU" Function, Pin 4 of MIDI IN to Pin 3 of MIDI OUT. You may connect an LED between Pin 3 of MIDI OUT to ground.
- Programs that won't print with a RS232C printer may have two (2) causes:
  - 1. Install printer set to "Printer" not "Modem".
  - Almost all current software is set to use the Parallel Printer Port without regard to the Printer Vector setup during Install Printer.

One way around this problem is to "Print" to a Text (TXT) or Report (RPT) File, on disk, within the program and use the Desk Top "Print" Option to dump to the Serial Printer. This may be cumbersome, but until the software is corrected by the Developers, it is the only way we have found.

- Phone Number Correction, in ATARI Dealer Service Alert #1, Technical Documentation & Support Section we erred on the phone number. The number should be (408) 745-2466 and not 725.
- When making an RS232C Terminal Cable for use in the ST Diagnostic, make sure that you reverse Pin 2 & 3 as follows:

Line	Connector	Connector
	A	В
Data Receive	Pīn 2	Pīn 3
Data Transmit	Pin 3	Pin 2

Otherwise you will get no response from the terminal.

- We have in test a Alignment and Speed Verification diskette for 3.5" "SF" series drives. It will allow you to insure that the drive is functioning properly. Look for it around mid September.
- A few PS3000 Monitors have been shipped. This is a combination of the SC1224J monitor and a single sided 3.5" floppy disk drive. They share a single power supply. Please refer to the individual Field Service Manuals.

## TECHNICAL ADVISE NOTICE LOG:

TAN #	MODEL/SUBJECT	ISSUE SUMMARY	EFFECTIVITY
0001 0002 0003 0004 0005 0006 0007 0008 0009 0010 0011	1040STF/SC1224 1040STF 1040STF "ST" SERIES "ST" SERIES DIAG 520ST BLACK FDD CABLE 3.5" FDD MEDIA 65/130XE 1200XL/XM301 "ST" SERIES "ST" SERIES DIAG	DISTORTED DISPLAY WHINE OF WHISTLE DRIVE SOUNDS PRINTERS ROM CHECKSUMS POWER SUPPLY INTERMITTENT POOR QUALITY FUNCTION KEYS CURRENT LIMIT CHIP CLIPS "E7" ERROR (3.5)	AR/NM AR/NM IO AR/NM IO IO AR IO AR IO AR/NM AR/NM AR/NM IO

NM = NOT MANDATORY AR = AS REQUIRED IO = INFORMATION ONLY







MODEL/ASSY:

CABLE ASSY CA070139-001/002 (BLACK)

FLOPPY DISK DRIVE

REFERENCE:

NONE

TAN#: 0007

DATE: 7 JULY '86

EFFECTIVITY:

ONLY those that exhibit problems The HOLFAMMOTH

ISSUE:

Reports of intermittent Disk Drive operation

DESCRIPTION:

There are Two (2) suppliers of FDD interface cables.

One is BLACK the other is GREY.

PROBLEM:

Some of the BLACK cables have weak crimp on the connector strain relief, causing the wires to come loose within the connector, giving an intermittent

operation.

Atari will exchange the BLACK CABLES found to be defective with GREY CABLES at no charge to

the Dealer.

DO NOT RETURN GREY CABLES OF THE A REGISTER VIEW OF THE PROPERTY OF THE PROPER

Return defective BLACK cables to:

deAtari Service of ad 100-4000000000 . 610-04

360 Caribbean Drive, Door 4-0007

Sunnyvale, CA 94089

Please include your company name and address.

ADDITIONAL INFO: Cables must be returned prepaid and will also

be shipped to Dealer prepaid.

DOCUMENTATION:

N/A







MODEL/ASSY:

SF354/SF314/1040STF DRIVES

TAN#: 0008

ÁEFERENCE:

NONE

DATE: 7 JULY '86

EFFECTIVITY:

INFORMATION ONLY STREET, STREE

ISSUE:

Reports of lost data or no Drive response

DESCRIPTION:

Drives do not respond with diskette that "worked" before or corruption of all or part of the files on

a diskette.

PROBLEM:

We have found that many of the Manufacturers or

Vendors of 3.5" diskettes do not have the same quality

level.

Some media will cause excessive head wear.

Some media will stick in it's jacket causing squeaks

or wow and flutter errors.

SOLUTION:

Although Atari can not give specific recommendation of any particular brand of media, we have found best

results using the following:

Atari Media, C026224-001 DS/DD or any other high

quality media. 7000-4 mood eving needdine 0000

ADDITIONAL INFO: N/A bas saan yaagaso micy shefont sassiq

DOCUMENTATION:







MODEL/ASSY: 65XE/130XE

TAN#: 0009

REFERENCE:

NONE

DATE: 25 JULY '86

EFFECTIVITY:

AS REQUIRED - NOT MANDATORY

ISSUE:

Failure of "FUNCTION' keys

DESCRIPTION:

Intermittent or complete failure of the HELP, START,

JEGGS A BOOK FOR OPTION AND RESET Keys 1000K hoop among a second as

PROBLEM:

Excessive voltage drop in the keyboard and the keyboard connector (J8). This is caused by oxidation/contamination

of the metalization film on the flex circuit.

SOLUTION:

Clean contacts & reduce current thru the LED.

Remove the flex circuit from the edge connector (J8).

CAREFULLY remove any oxidation or contamination from B. the metal film, DO NOT USE EXCESSIVE FORCE, AS THIS WILL Legisterany & C DESTROY THE TRACE.

Shim the non conductive side of the flex circuit with any material. It should be .002 - .010" thick (scotch

"magic" transparent tape will work).
Remove R95, 220 OHM, connected to Pin 2 of J8.

E. Replace R95 with a 1000 OHM - 5% resistor.

F. Replace shield and reinsert flex circuit into J8.

Reassemble and test keyboard and computer functions

ADDITIONAL INFO: The cleaning and shim will minimize the recurrence of the poor contacts. The resistor change lowers the LED drive current and thereby reduces the voltage drop across

the poor contacts thus eliminating the problem.

DOCUMENTATION:

Schematic:

130XE

C070065

65XE

C070001







MODEL/ASSY: 1200XL/XM301

TAN#: 0010

REFERENCE: NONE

DATE: 25 JULY '86

EFFECTIVITY: AS REQUIRED - NOT MANDATORY

ISSUE:

XM301 MODEM DOES NOT WORK WITH 1200XL COMPUTER

DESCRIPTION: A known good XM301 will not work with a known good 1200XL

PROBLEM: Current limiting resistor on +5v ready, Pin 10 of J1

SOLUTION:

treater early against the edit secuber ydeast bas incirco ekinb

TION: Increase current available to modem

A. Remove R63, 100 OHM , resistor.

B. Replace R63 with a jumper wire (0 OHM).

C. Reassemble and test modem and computer function.

ADDITIONAL INFO: The 1200XL is the only model with this current limiting

resistor - all others work correctly. Acplace ASS with a 1900 own - 57 resistor. Esplace shield and retraert fies sircuit thes to

REFERENCE:

Schematic, part of Field Service Manual FD100217

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MODEL/ASSY: "ST" SERIES

TAN#: 0011

REFERENCE: NONE

DATE: 25 JULY '86

EFFECTIVITY: AS REQUIRED - NOT MANDATORY

ISSUE: Failure of units due to "LOOSE" Chips 2002/08/8

Their Booting or bunning the Yiming (T) Test is the 1.5 DESCRIPTION: There are several symptoms of this problem which include:

A) Black, Garbage, and/or vertical bars on the screen.

B) Erratic CPU and/or I/O functions.

bok nessos 808 edf must yliseron for bluow "rolls" slav

PROBLEM:

In some units one or more of the leads on the GLUE and MMU Chips (68 Pin) lose contact or the chip, in extreme cases, will pop out.

SOLUTION:

Install a retention clip to insure that the chip is held firmly in place:

- A. Disassemble CPU and remove the shield.
- B. Remove and reseat the GLUE and MMU chips.
- Install the "Clip Square Chip (68 Pin)", C070718 diagonally across the top of each chip.
- D. Replace the shield, reassemble and test the computer.

ADDITIONAL INFO: The clip is a standard stock item and may be ordered thru the ATARI parts department.

DOCUMENTATION:

N/A







MODEL/ASSY:

"ST" SERIES

TAN#: 0012

REFERENCE:

ST DIAGNOSTIC REVISION 3.5

DATE: 25 JULY '86

EFFECTIVITY:

INFORMATION ONLY

ISSUE:

ERRONEOUS "E7 Spurious interupt" error when using 3.5

Diagnostics

DESCRIPTION:

When Booting or Running the Timing (T) Test in the 3.5

Diagnostic, an "E7 Spuirious Interupt - Bus Error" would

be reported on the screen.

This "Error" would not normally turn the RGB screen Red

or indicate "Fail".

On the Mono Monitor it will usually indicate "Fail".

PROBLEM:

Bug in the Timing Test portion of the 3.5 Diagnostic.

SOLUTION:

tepela al glevil A. Ignore all "E7" Errors produced by Revision 3.5

Use Revision 3.5 or higher when available. 2. Femove and reseat the CLUS and HMY chips: 2. Install the "Clip Square Chip (68 Pig)" moreous

ADDITIONAL INFO: This bug will be fixed along with the next Revision

of the Diagnostic - August/September time period.

DOCUMENTATION:

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